

PRELIMINARY INVESTIGATIONS OF SUBMERGED AREAS

Delivery Order Number 024
Project Aramis Wildlife Refuge

Date 11/10/04

Location ID Number J-33

Coordinates: X 2633032

Y 13233444

Water Depth 3.8

Pipe Length 15

Tide Staff Readings:

Time Reading

Morning

Mid-Day

Evening

Push No. 1 Time 3:55

Weight of Pipe Penetration (WOP) 4.3

One-Hand Push (40-lb) Depth 5.1

Comment SA CL soft

Comments

One-Hand Push (70-lb) Depth 6.3

Comments

Two-Hand Push to Refusal - Depth 7.4

Jig 9.2

Comments soft firm CL

Shell Bottom

Push No. 2 Time 4:09

Weight of Pipe Penetration (WOP) 4.4

One-Hand Push (40-lb) Depth 5.0

Comment soft CL

Comments

One-Hand Push (70-lb) Depth 6.5

Comments soft to firm CL

Two-Hand Push to Refusal - Depth 8.0

Jig 9.7

Comments firm CL

Shell Bottom

Hand Proving Ring Penetrometer Test? yes

Hand Vane Shear Test?

Technician (Probe Handler) mike A.

Recorder Gary L.

HAND CONE PENETRATION TEST (CPT)

Delivery Order Number: 024
Project: ARANS Wildlife Refuge

Date 11/10/04

Location ID Number J-33
Time 4:24

Weight of Proving Ring _____
Weight of Rod Section _____

Weight of Rod Penetration 6.7
Comments _____

Number of Rods 4

Comments

<u>End</u>	<u>Dial</u>	<u>No.</u>	<u>Comment</u>
<u>Depth</u>		<u>Rods</u>	
7.0	68		Soft CL
7.3	39		" "
7.6	44		" "
7.9	83		" "
8.0	74		" "
8.3	112		Soft / Green CL
8.6	131		" "
8.9	210		Green CL Shell
9.0	231		Shell

[illegible]

Comments _____

Hand Cone Penetrometer Test and Analysis:

RTB 12/07/04

Project: Aransas National Wildlife Ref. - BUS Site "J"
Location: Dunham Bay located outside of Rockport, TX
Delivery Order #: 0024
Date of Testing: 11/10/04 - 11/11/04

Probing Results

Resistance	Depth 1	Depth 2	MLT1'	MLT2'	Average
Weight of Pipe	4.3	4.4	-2.2	-2.3	-2.3
1 HP (40lbs)	5.1	5.0	-3.0	-2.9	-3.0
1 HP (70lbs)	6.3	6.5	-4.2	-4.4	-4.3
2 Hand Refusal	7.4	8.0	-5.3	-5.9	-5.6

[illegible]

Depth Vs. Shear Strength

♦ J33

